# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 07/09/2015 12:39 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 04/20/2015 11:37 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123996 | -1 | 2.77 | 123830 | 2.74 |
| Blue | F | SSC | 125000 | 123740 | -2 | 3.13 | 124579 | 2.80 |
| Blue | E | FITC | 17998 | 17347 | -4 | 2.49 | 979 | 8.63 |
| Blue | D | PE | 23234 | 22388 | -4 | 2.08 | 1011 | 8.00 |
| Blue | B | PerCP-Cy5-5 | 69571 | 68303 | -2 | 2.79 | 1794 | 12.94 |
| Blue | A | PE-Cy7 | 77815 | 77398 | -1 | 3.86 | 1012 | 24.51 |
| Red | C | APC | 65936 | 65040 | -2 | 2.50 | 3669 | 7.98 |
| Red | A | APC-Cy7 | 100669 | 98348 | -3 | 2.53 | 1943 | 7.79 |
| Violet | B | V450 | 10405 | 9854 | -6 | 3.89 | 613 | 8.56 |
| Violet | A | V500 | 47250 | 45937 | -3 | 3.52 | 2599 | 6.07 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19199 | 12.79 | 602 | 23 | N/A | N/A | Pass |
| Blue | F | SSC | 61809 | 1.85 | 512 | 23 | N/A | N/A | Pass |
| Blue | E | FITC | 106 | 32.95 | 527 | 12 | 0.0266 | 22 | Pass |
| Blue | D | PE | 208 | 23.59 | 520 | 13 | 0.1719 | 104 | Pass |
| Blue | B | PerCP-Cy5-5 | 217 | 38.08 | 606 | 16 | 0.0115 | 0 | Pass |
| Blue | A | PE-Cy7 | 74 | 96.49 | 663 | 17 | 0.0153 | 7 | Pass |
| Red | C | APC | 342 | 25.99 | 584 | 6 | 0.0219 | 16 | Pass |
| Red | A | APC-Cy7 | 122 | 36.39 | 564 | 5 | 0.0049 | 517 | Pass |
| Violet | B | V450 | 65 | 44.98 | 466 | 16 | 0.0439 | 2147 | Pass |
| Violet | A | V500 | 169 | 21.92 | 507 | 19 | 0.0138 | 134 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.64 | 47.70 - 71.54 | N/A | N/A | -31.51 | -31.33 | 0.74 |
| Blue | 20.46 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.19 |
| Red | 15.78 | 13.07 - 19.61 | N/A | N/A | 31.83 | 32.13 | 1.11 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.84

## Threshold

Threshold (FSC): 13926

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments